

**SCHEME OF STUDIES & EVALUATION PLAN FOR ONE YEAR DIPLOMA IN
INFORMATION TECHNOLOGY COURSE (2011)**

Diploma in information Technology

PART-1/ FIRST SEMESTER

Information & Communication Technology (ICT)

1. Introduction to information technology

- a) Information Technology
- b) Data types of data
- c) information
- d) History of computing
- e) Introduction to computer hardware and trouble shooting concepts

2. Introduction to computer Hardware

- a) Introduction to the personal Computer
- b) safe Lab procedures and Tool Use
- c) Computer Assemble Step-by-Step
- d) Basics of preventive Maintenance and Troubleshooting.
- e) Fundamental Operating System
- f) Fundamental Laptops and portable Devices
- g) Fundamental printers and Scanners.

3. Storage Devices

- a) Main / primary memory (RAM, ROM)
- b) Secondary / Auxiliary Storage Devices
- c) (Hard Disk, CD-ROM, Magnetic tape, Magnetic drum), USB
- d) Introduction of Microprocessor
- e) Basic Architecture of microprocessor
- f) Introduction of different technologies of microprocessors

4. Software design and algorithm:

- a) Software
- b) System Software
- c) Application Software

- d) Flow Charts
- e) concepts of programming languages & their types
- f) compiler
- g) Interpreter
- h) Assembler

5. Productive Enhancement Software Packages

- a) Introduction of Word Processors, Spread Sheets, Database
- b) Introduction of Number System and their inter conversion
- c) Impact of computers and internet on society (uses and misuses)
- d) Computer Codes (BCD, EBCDIC, ASCII, and Unicode)

6. CAD/CAM

- a) Speculation on future computers and their uses
- b) AI Neural network
- c) Expert System
- d) Virus
- e) Antivirus.

7. Fundamental Networks

- a) Networks and its types
- b) Networks media
- c) Topologies
- d) network Devices